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- › [DUMBORC](#) /
- › [DUMBORC 2.4G 6-Channel RC Receiver User Manual](#)

## DUMBORC X6F, X6FG

# DUMBORC 2.4G 6-Channel RC Receiver User Manual

Models: X6F, X6FG

## 1. PRODUCT OVERVIEW

The DUMBORC 2.4G 6-channel RC receiver combo includes both X6F (without gyroscope) and X6FG (with gyroscope) models. These receivers operate on a 2.4GHz frequency, providing a stable and responsive connection for various RC models. Designed for use with DUMBORC X4, X6, and X10 transmitters, they offer a control distance of up to 400 meters. The FHSS (Frequency Hopping Spread Spectrum) signal technology ensures faster transmission speeds, quicker response times, and enhanced stability, making them suitable for a wide range of applications including RC trucks, crawlers, racing cars, and boats.



Image: A set of four DUMBORC receivers. The top two are X6F models, and the bottom two are X6FG models, distinguishable by their labels.

## 2. KEY FEATURES

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- **2.4GHz FHSS Technology:** Ensures reliable and interference-free communication with a control distance of up to 400 meters.
- **6 Channels:** Provides ample control options for various RC functions.
- **Versatile Compatibility:** Compatible with DUMBORC X4, X6, and X10 transmitters.
- **Gyroscope Function (X6FG):** The X6FG model includes an integrated gyroscope for enhanced vehicle stability, particularly useful in challenging driving conditions.
- **Wide Application:** Suitable for RC cars (trucks, crawlers, racing), boats, and tanks.
- **Multi-Receiver Control:** A single DUMBORC transmitter can be bound to multiple receivers, allowing control of several models with one transmitter.

## 3. PACKAGE CONTENTS

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The standard package includes the following components:

- 2 x DUMBORC X6F Receivers (without gyroscope)
- 2 x DUMBORC X6FG Receivers (with gyroscope)

*Note: You may receive updated versions labeled P6F and P6FG. These are functionally identical or improved versions of the X6F and X6FG.*

## 4. SETUP AND BINDING

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### 4.1 Receiver Layout (X6FG Example)

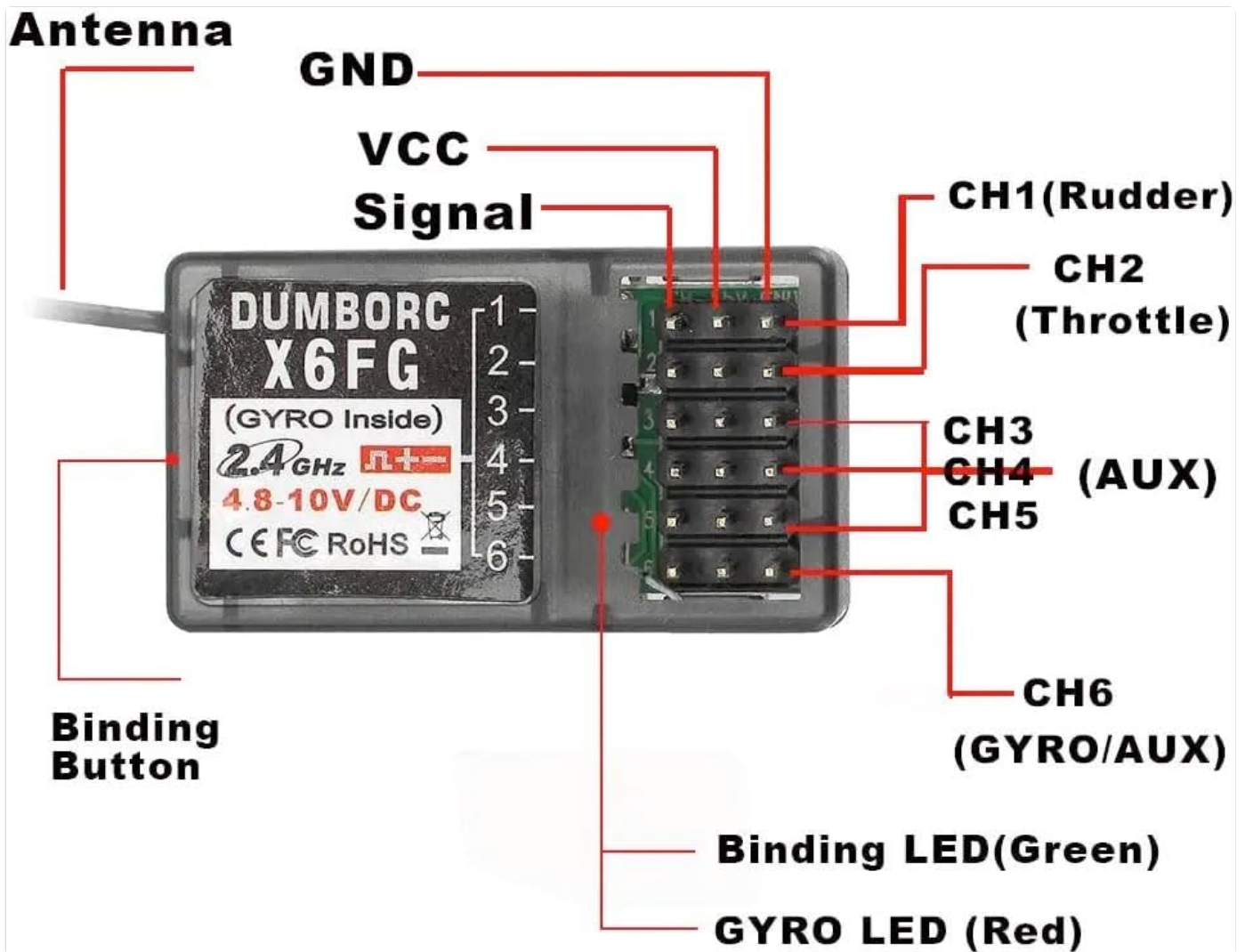


Image: A detailed diagram of the DUMBORC X6FG receiver, illustrating the location of the antenna, binding button, power (GND, VCC), signal pin, and channels CH1 through CH6. It also shows the Binding LED (Green) and Gyro LED (Red).

- **Antenna:** For signal reception. Ensure it is positioned away from metal parts for optimal performance.
- **Binding Button:** Used to initiate the binding process with the transmitter.
- **GND (Ground):** Negative power connection.
- **VCC (Voltage Common Collector):** Positive power connection (4.8-10V DC for X6F, 3.3-10V DC for X6FG).
- **Signal:** Signal output pin for each channel.
- **CH1 (Rudder):** Typically for steering.
- **CH2 (Throttle):** Typically for motor control.
- **CH3-CH5 (AUX):** Auxiliary channels for additional functions (e.g., lights, winches).
- **CH6 (GYRO/AUX):** For X6FG, this channel controls the gyroscope sensitivity or can be used as an auxiliary channel.
- **Binding LED (Green):** Indicates binding status.
- **GYRO LED (Red):** (X6FG only) Indicates gyroscope status.

## 4.2 Binding Procedure

To establish communication between your DUMBORC transmitter and receiver, follow these steps:

1. Ensure your DUMBORC transmitter is turned off.
2. Connect power to the receiver (e.g., via an ESC or a dedicated receiver battery). The receiver's LED will flash rapidly, indicating it is in binding mode.

3. Press and hold the binding button on the receiver.
4. While holding the binding button, turn on your DUMBORC transmitter.
5. Release the binding button on the receiver once the receiver's LED turns solid green. This indicates successful binding.
6. Turn off both the transmitter and receiver.
7. Turn on the transmitter first, then the receiver. The receiver's LED should turn solid green, confirming the connection.

If the binding fails, repeat the steps. Ensure the transmitter and receiver are within close proximity during the binding process.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Operation

- Always turn on your transmitter before turning on your RC model's receiver.
- After use, turn off the receiver first, then the transmitter.
- Ensure all connections (servos, ESC, battery) are secure before operation.
- Perform a range check before operating your model at a distance, especially in new environments.

### 5.2 Gyroscope Function (X6FG Only)

The X6FG receiver features an integrated gyroscope to assist with vehicle stability, particularly beneficial for drift cars or vehicles prone to losing traction. The gyroscope helps maintain the vehicle's direction by automatically counteracting unwanted movements.

- **Gyroscope Activation:** The gyroscope is active by default on the X6FG.
- **Sensitivity Adjustment:** The sensitivity of the gyroscope can typically be adjusted via Channel 6 on your DUMBORC transmitter. Refer to your transmitter's manual for specific instructions on adjusting auxiliary channels.
- **Gyro LED (Red):** A solid red LED on the X6FG indicates the gyroscope is active.

Experiment with different sensitivity settings to find the optimal balance for your driving style and vehicle type. High sensitivity can make the vehicle feel overly assisted, while low sensitivity may not provide enough stabilization.

## 6. SPECIFICATIONS

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Feature	Specification
Frequency	2.4GHz FHSS
Channels	6
Control Distance	Up to 400 meters
Operating Voltage (X6F)	4.8V - 10V DC
Operating Voltage (X6FG)	3.3V - 10V DC
Dimensions	0.79 x 0.51 x 1.38 inches (20 x 13 x 35 mm)

Feature	Specification
Weight	0.32 ounces (approx. 9 grams)
Gyroscope	Integrated (X6FG only)



Image: The DUMBORC X6FG receiver shown with its physical dimensions: 35mm in length, 20mm in width, and 13mm in height.



Image: The DUMBORC X6FG receiver resting in the palm of a hand, illustrating its small and lightweight design.



Image: A close-up shot of the DUMBORC X6FG receiver, highlighting its label with specifications and the array of pin connectors.



Image: A close-up shot of the DUMBORC X6F receiver, highlighting its label with specifications and the array of pin connectors.



Image: An angled view of the DUMBORC X6F receiver, showcasing its compact and rectangular form factor with the antenna wire extending from one end.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Receiver not binding / LED flashing rapidly	Incorrect binding procedure; Transmitter not in binding mode; Receiver too far from transmitter.	Review and repeat the binding procedure (Section 4.2). Ensure transmitter is on and in binding mode (if applicable). Bring receiver closer to transmitter.
No control / Intermittent control	Receiver not bound; Low battery voltage (transmitter or receiver); Interference; Damaged antenna.	Re-bind the receiver. Check and replace batteries. Avoid operating near strong electrical interference sources. Inspect antenna for damage and ensure proper placement.
Gyroscope not working (X6FG)	Gyroscope disabled or sensitivity set to zero; Faulty receiver.	Check Channel 6 setting on your transmitter to ensure gyroscope is enabled and sensitivity is not zero. If issues persist, the receiver may be faulty.
Short control range	Antenna obstructed or damaged; High interference; Low battery.	Ensure antenna is fully extended and clear of carbon fiber or metal parts. Operate in an open area. Check battery levels.

## 8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the receiver. Avoid using solvents or harsh chemicals.
- **Storage:** Store the receiver in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connections:** Regularly check all wire connections for signs of wear, corrosion, or looseness. Ensure pins are not bent.
- **Antenna:** Protect the antenna from kinks or cuts. A damaged antenna can significantly reduce range.

## 9. WARRANTY AND SUPPORT

DUMBORC products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please refer to the official DUMBORC website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

For more information, visit the [DUMBORC Store](#).